Corey Staten

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EXPERIENCE

REINFORCEMENT LEARNING GRANT | from the Machine Inteligence Research Institute
July 2018 – September 2018

- Implemented and debugged reinforcement learning algorithms in TensorFlow, including: vanilla policy gradient, A2C, proximal policy optimization, and deep Q-networks + variants.
- Studied the reinforcement learning literature, focusing on the most influential papers from the last few years.

GRADUATE STUDENT | The Ohio State University
September 2014 – May 2018

- Described new algorithms for higher-dimensional pathfinding in certain computads as part of a PhD thesis on higher-dimensional rewriting theory.
- Wrote and released a python library, CatComputad, implementing thesis algorithms.

CONSULTANT | Self-employed
February 2013 – August 2014

- Designed and built a web platform(WEx) for peer review of writing assignments, used by thousands of students in multiple runs of a massive online course by the English department at Ohio State University.
- Provided project management, development, and support services to the WEx team in the English department, including: deployment, database management, integration with existing systems, and coordination with separate technology and accessibility teams at OSU.
- Helped design and build initial versions of Ximera, a web platform for interactive mathematics course materials.
- Worked with OSU's Office of Disability Services to increase features and accessibility of the AblePlayer media player.

PROGRAMMER | CallCopy
March 2011 – February 2013

- Researched and developed the core technical components for a new workforce management product, including call volume forecasting, simulation, and employee scheduling.
- Did full-stack development of web applications and telephony device integrations.

EDUCATION

THE OHIO STATE UNIVERSITY | Ph.D. in Mathematics, August 2018
| M.S. in Mathematics, March 2011
| B.S. in Mathematics, June 2009

SKILLS

DOMAINS
Reinforcement Learning
Mathematical Software
Full-stack Development
Research Capability
Communication and Soft Skills

KEY TECHNOLOGIES
Python
TensorFlow
Haskell
JavaScript
SQL